MURINE SOLUBLE RAGE_FC

```
   1 ATGCCAGCGG GGACAGCAGC TAGAGCCTGG GTGCTGGTTC TTGCTCTATG
  51 GGGAGCTGTA GCTGGTGGTC AGAACATCAC AGCCCGGATT GGAGAGCCAC
 101 TTGTGCTAAG CTGTAAGGGG GCCCCTAAGA AGCCGCCCCA GCAGCTAGAA
 151 TGGAAACTGA ACACAGGAAG AACTGAAGCT TGGAAGGTCC TCTCTCCCCA
 201 GGGAGGCCCC TGGGACAGCG TGGCTCAAAT CCTCCCCAAT GGTTCCCTCC
 251 TCCTTCCAGC CACTGGAATT GTCGATGAGG GGACGTTCCG GTGTCGGGCA
 301 ACTAACAGGC GAGGGAAGGA GGTCAAGTCC AACTACCGAG TCCGAGTCTA
 351 CCAGATTCCT GGGAAGCCAG AAATTGTGGA TCCTGCCTCT GAACTCACAG
 401 CCAGTGTCCC TAATAAGGTG GGGACATGTG TGTCTGAGGG AAGCTACCCT
 451 GCAGGGACCC TTAGCTGGCA CTTAGATGGG AAACTTCTGA TTCCCGATGG
 501 CAAAGAAACA CTCGTGAAGG AAGAGACCAG GAGACACCCT GAGACGGGAC
 551 TCTTTACACT GCGGTCAGAG CTGACAGTGA TCCCCACCCA AGGAGGAACC
 601 ACCCATCCTA CCTTCTCCTG CAGTTTCAGC CTGGGCCTTC CCCGGCGCAG
 651 ACCCCTGAAC ACAGCCCCTA TCCAACTCCG AGTCAGGGAG CCTGGGCCTC
 701 CAGAGGGCAT TCAGCTGTTG GTTGAGCCTG AAGGTGGAAT AGTCGCTCCT
 751 GGTGGGACTG TGACCTTGAC CTGTGCCATC TCTGCCCAGC CCCCTCCTCA
 801 GGTCCACTGG ATAAAGGATG GTGCACCCTT GCCCCTGGCT CCCAGCCCTG
 851 TGCTGCTCCT CCCTGAGGTG GGGCACGCGG ATGAGGGCAC CTATAGCTGC
 901 GTGGCCACCC ACCCTAGCCA CGGACCTCAG GAAAGCCCTC CTGTCAGCAT
 951 CAGGGTCACA GAAACCGGCG ATGAGGGGCC AGCTGAAGGC TCTGTGGGTG
1001 AGTCTGGGCT GGGTACGCTA GCCCTGGCCG AGCCCCGCGG ACCGACAATC
1051 AAGCCCTGTC CTCCATGCAA ATGCCCAGGT AAGTCACTAG ACCAGAGCTC
1101 CACTCCCGGG AGAATGGTAA GTGCTATAAA CATCCCTGCA CTAGAGGATA
1151 AGCCATGTCA AGATCCATTT CCATCTCTCC TCATCAGCAC CTAACCTCGA
1201 GGGTGGACCA TCCGTCTTCA TCTTCCCTCC AAAGATCAAG GATGTACTCA
1251 TGATCTCCCT GAGCCCCATA GTCACATGTG TGGTGGTGGA TGTGAGCGAG
1301 GATGACCCAG ATGTCCAGAT CAGCTGGTTT GTGAACAACG TGGAAGTACA
1351 CACAGCTCAG ACACAAACCC ATAGAGAGGA TTACAACAGT ACTCTCCGGG
1401 TGGTCAGTGC CCTCCCCATC CAGCACCAGG ACTGGATGAG TGGCAAGGCT
1451 TTCGCATGCG CCGTCAACAA CAAAGACCTC CCAGCGCCCA TCGAGAGAAC
1501 CATCTCAAAA CCCAAAGGTG AGAGCTGCAG CCTGACTGCA TGGGGGCTGG
1551 GATGGGCATA AGGATAAAGG TCTGTGTGGA CAGCCTTCTG CTTCAGCCAT
1601 GACCTTTGTG TATGTTTCTA CCCTCACAGG GTCAGTAAGA GCTCCACAGG
1651 TATATGTCTT GCCTCCACCA GAAGAAGAGA TGACTAAGAA ACAGGTCACT
1701 CTGACCTGCA TGGTCACAGA CTTCATGCCT GAAGACATTT ACGTGGAGTG
1751 GACCAACAAC GGGAAAACAG AGCTAAACTA CAAGAACACT GAACCAGTCC
1801 TGGACTCTGA TGGTTCTTAC TTCATGTACA GCAAGCTGAG AGTGGAAAAG
1851 AAGAACTGGG TGGAAAGAAA TAGCTACTCC TGTTCAGTGG TCCACGAGGG
1901 TCTGCACAAT CACCACACGA CTAAGAGCTT CTCCCGGACT CCGGGTAAAT
1951 GAGCTCAGCA CCCACAAAAC TCTCAGGTCC AAAGAGACAC CCACACTCAT
2001 CTCCATGCTT CCCTTGTATA AATAAAGCAC CCAGCAATGC CTGGGACCAT
2051 GTAATAG
```

Fig. 1A

MURINE SOLUBLE RAGE_FC
```
1   MPAGTAARAW VLVLALWGAV AGGQNITARI GEPLVLSCKG APKKPPQQLE
51  WKLNTGRTEA WKVLSPQGGP WDSVAQILPN GSLLLPATGI VDEGTFRCRA
101 TNRRGKEVKS NYRVRVYQIP GKPEIVDPAS ELTASVPNKV GTCVSEGSYP
151 AGTLSWHLDG KLLIPDGKET LVKEETRRHP ETGLFTLRSE LTVIPTQGGT
201 THPTFSCSFS LGLPRRRPLN TAPIQLRVRE PGPPEGIQLL VEPEGGIVAP
251 GGTVTLTCAI SAQPPPQVHW IKDGAPLPLA PSPVLLLPEV GHADEGTYSC
301 VATHPSHGPQ ESPPVSIRVT ETGDEGPAEG SVGESGLGTL ALA
```

Fig. 1B

MURINE solTNFRII_FC
```
   1 ATGGCGCCCG CCGCCCTCTG GGTCGCGCTG GTCTTCGAAC TGCAGCTGTG
  51 GGCCACCGGG CACACAGTGC CCGCCCAGGT TGTCTTGACA CCCTACAAAC
 101 CGGAACCTGG GTACGAGTGC CAGATCTCAC AGGAATACTA TGACAGGAAG
 151 GCTCAGATGT GCTGTGCTAA GTGTCCTCCT GGCCAATATG TGAAACATTT
 201 CTGCAACAAG ACCTCGGACA CTGTGTGTGC GGACTGTGAG GCAAGCATGT
 251 ATACCCAGGT CTGGAACCAG TTTCGTACAT GTTTGAGCTG CAGTTCTTCC
 301 TGTAGCACTG ACCAGGTGGA GACCCGCGCC TGCACTAAAC AGCAGAACCG
 351 AGTGTGTGCT TGCGAAGCTG GCAGGTACTG CGCCTTGAAA ACCCATTCTG
 401 GCAGCTGTCG ACAGTGCATG AGGCTGAGCA AGTGCGGCCC TGGCTTCGGA
 451 GTGGCCAGTT CAAGAGCCCC AAATGGAAAT GTGCTATGCA AGGCCTGTGC
 501 CCCAGGGACG TTCTCTGACA CCACATCATC CACAGATGTG TGCAGGCCCC
 551 ACCGCATCTG TAGCATCCTG GCTATTCCCG AAATGCAAG CACAGATGCA
 601 GTCTGTGCGC CCGAGTCCCC AACTCTAAGT GCCATCCCAA GGACACTCTA
 651 CGTATCTCAG CCAGAGCCCA CAAGATCCCA ACCCCTGGAT CAAGAGCCAG
 701 GGCCCAGCCA AACTCCAAGC ATCCTTACAT CGTTGGGTTC AACCCCCATT
 751 ATTGAACAAA GTACCAAGGG TGGCGAGCCC CGCGGACCGA CAATCAAGCC
 801 CTGTCCTCCA TGCAAATGCC CAGGTAAGTC ACTAGACCAG AGCTCCACTC
 851 CCGGGAGAAT GGTAAGTGCT ATAAACATCC CTGCACTAGA GGATAAGCCA
 901 TGTACAGATC CATTTCCATC TCTCCTCATC AGCACCTAAC CTCGAGGGTG
 951 GACCATCCGT CTTCATCTTC CCTCCAAAGA TCAAGGATGT ACTCATGATC
1001 TCCCTGAGCC CCATAGTCAC ATGTGTGGTG GTGGATGTGA GCGAGGATGA
1051 CCCAGATGTC CAGATCAGCT GGTTTGTGAA CAACGTGGAA GTACACACAG
1101 CTCAGACACA AACCCATAGA GAGGATTACA ACAGTACTCT CCGGGTGGTC
1151 AGTGCCCTCC CCATCCAGCA CCAGGACTGG ATGAGTGGCA AGGCTTTCGC
1201 ATGCGCCGTC AACAACAAAG ACCTCCCAGC GCCCATCGAG AGAACCATCT
1251 CAAAACCCAA AGGTGAGAGC TGCAGCCTGA CTGCATGGGG GCTGGGATGG
1301 GCATAAGGAT AAAGGTCTGT GTGGACAGCC TTCTGCTTCA GCCATGACCT
1351 TTGTGTATGT TTCTACCCTC ACAGGGTCAG TAAGAGCTCC ACAGGTATAT
1401 GTCTTGCCTC CACCAGAAGA AGAGATGACT AAGAAACAGG TCACTCTGAC
1451 CTGCATGGTC ACAGACTTCA TGCCTGAAGA CATTTACGTG GAGTGGACCA
1501 ACAACGGGAA AACAGAGCTA AACTACAAGA ACACTGAACC AGTCCTGGAC
1551 TCTGATGGTT CTTACTTCAT GTACAGCAAG CTGAGAGTGG AAAAGAAGAA
1601 CTGGGTGGAA AGAAATAGCT ACTCCTGTTC AGTGGTCCAC GAGGGTCTGC
1651 ACAATCACCA CACGACTAAG AGCTTCTCCC GGACTCCGGG TAAATGAGCT
1701 CAGCACCCAC AAAACTCTCA GGTCCAAAGA GACACCCACA CTCATCTCCA
1751 TGCTTCCCTT GTATAAATAA AGCACCCAGC AATGCCTGGG ACCATGTAAT
1801 AGGAATTATC
```

Fig. 2A

MURINE solTNFRII_FC
MAPAALWVAL VFELQLWATG HTVPAQVVLT PYKPEPGYEC QISQEYYDRK 51
AQMCCAKCPP GQYVKHFCNK TSDTVCADCE ASMYTQVWNQ FRTCLSCSSS 101
CSTDQVETRA CTKQQNRVCA CEAGRYCALK THSGSCRQCM RLSKCGPGFG 151
VASSRAPNGN VLCKACAPGT FSDTTSSTDV CRPHRICSIL AIPGNASTDA 201
VCAPESPTLS AIPRTLYVSQ PEPTRSQPLD QEPGPSQTPS ILTSLGSTPI 251
IEQSTKGG

Fig. 2B

AN EXAMPLE OF A HUMAN RAGE-LBE FUSED
TO AN Fc (AMINO ACID SEQUENCE)

MAAGTAVGAWVLVLSLWGAVVGAQNITARIGEPLVLKC
KGAPKKPPQRLEWKLNTGRTEAWKVLSPQGGGPWDSVA
RVLPNGSLFLPAVGIQDEGIFRCQAMNRNGKETKSNYRV
RVYQIPEKPEIVDSASELTAGVPNKVGTCVSEGSYPAGTL
SWHLDGKPLVLNEKGVSVKEQTRRHPETGLFTLQSELMV
TPARGGDPRPTFSCSFSPGLPRHRALRTAPIQPRVWEPVPL
EEVQLVVEPEGGAVAPGGTVTLTCEVPAQPSPQIHWMKD
GVPLPLPPSPVLILPEIGPQDQGTYSCVATHSSHGPQESRA
VSISIIEPGEEGPTAGSVGGSGLGTLALACAGSGSGSGEPK
SCDKTHTCPPCPAPEALGAPSVFLFPDKPKDTLMISRTPE
VTCVVVDVSHEDPEVKFNWYVDGVEXQNAKTKPREEQY
NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT
ISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENKCKTTPPVLDSDGSFFLYSKLTVDKS
RWQQGNVFSCSVMHEALHNHYTQKSLSLSPGKStop

Fig. 3A

AN EXAMPLE OF A HUMAN RAGE-LBE FUSED
TO AN Fc (NUCLEIC ACID SEQUENCE)

```
atggcagccg gaacagcagt tggagcctgg gtgctggtcc tcagtctgtg
gggggcagta gtaggtgctc aaaacatcac agcccggatt ggcgagccac
tggtgctgaa gtgtaagggg gcccccaaga aaccacccca gcggctggaa
tggaaactga acacaggccg gacagaagct tggaaggtcc tgtctcccca
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tgtgtggcca cccattccag ccacgggccc caggaaagcc gtgctgtcag
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cccagcacct gaagccctgg gggcaccgtc agtcttcctc ttccccgaca
aacccaagga caccctcatg atctcccgga cccctgaggt cacatgcgtg
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gtaaatgagt g
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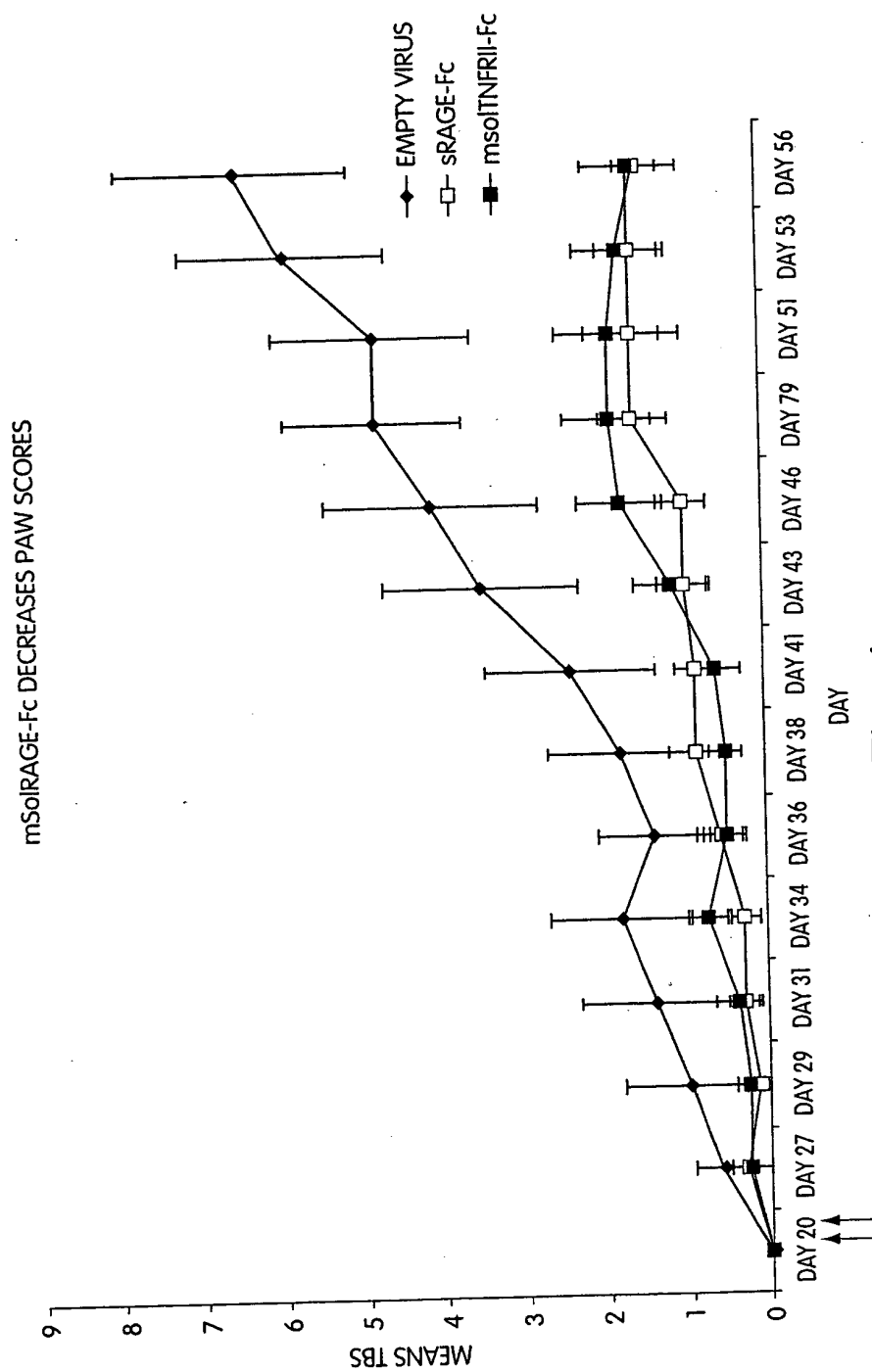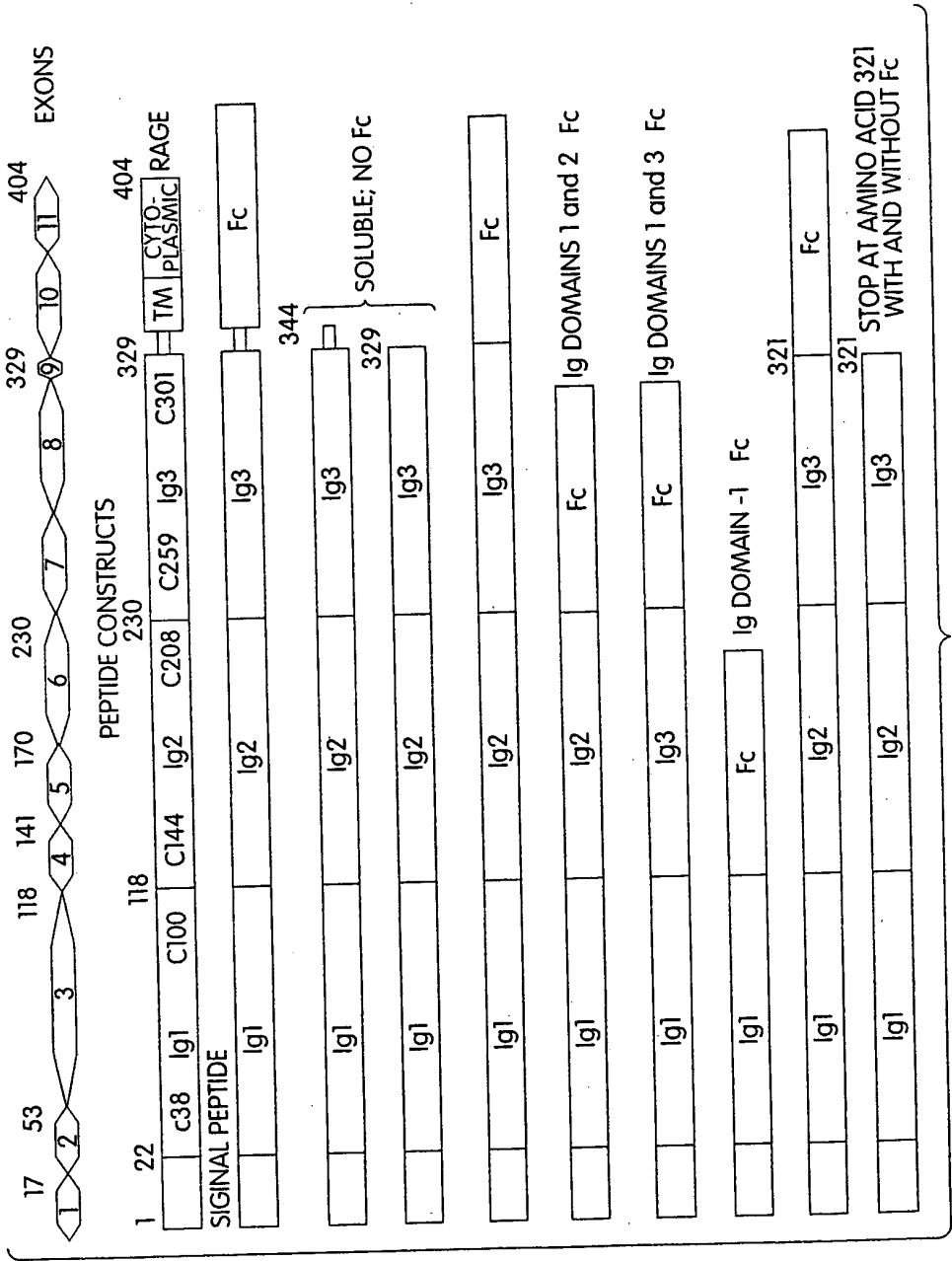
Fig. 3B

mSolRAGE-Fc DECREASES PAW SCORES

Fig. 4

Fig. 5

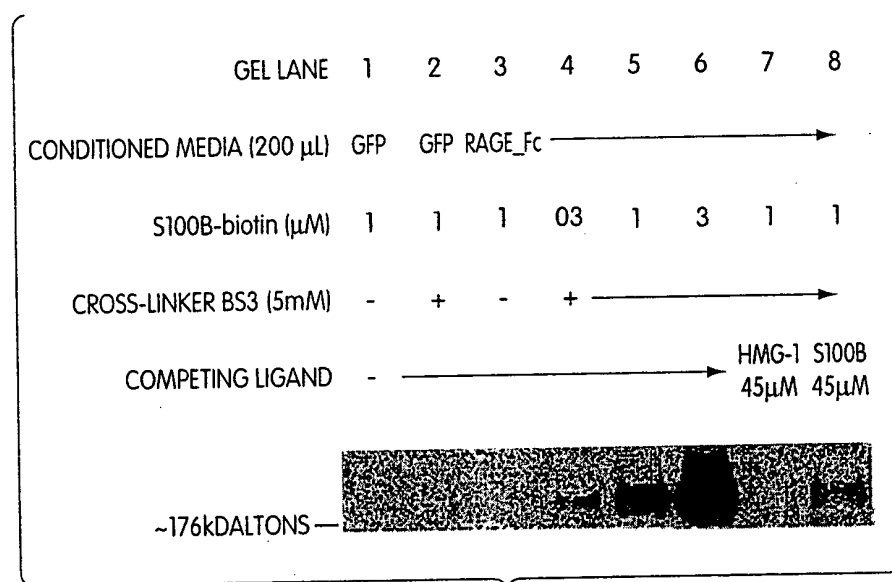| GEL LANE	1	2	3	4	5	6	7	8
CONDITIONED MEDIA (200 µL)	GFP	GFP	RAGE_Fc ————————————————→					
S100B-biotin (µM)	1	1	1	03	1	3	1	1
CROSS-LINKER BS3 (5mM)	-	+	-	+ ————————————————→				
COMPETING LIGAND	-	————————————————————————————→					HMG-1 45µM	S100B 45µM

~176kDALTONS —

Fig. 6

HUMAN RAGE AMINO ACID SEQUENCE
(FULL LENGTH PRECURSOR SEQUENCE)

```
  1  maagtavgaw  vlvlslwgav  vgaqnitari  geplvlkckg  apkkppqrle  wklntgrtea
 61  wkvlspqggg  pwdsvarvlp  ngslflpavg  iqdegifrcq  amnrngketh  snyrvrvyqi
121  pgkpeivdsa  seltagvpnk  vgtcvsegsy  pagtlswhld  gkplvpnekg  vsvkeqtrrh
181  petglftlqs  elmvtpargg  dprptfscsf  spglprhral  rtapiqprvw  epvpleevql
241  vvepeggava  pggtvtltce  vpaqpspqih  wmkdgvplpl  ppspvlilpe  igpqdqgtys
301  cvathsshgp  qesravsisi  iepgeegpta  gsvggsglgt  lalalgilgg  lgtaalligv
361  ilwqrrqrrg  eerkapenqe  eeeeraelnq  seepeagess  tggp
```

Fig. 7

HUMAN RAGE NUCLEIC ACID cDNA SEQUENCE

```
1     gtccctggaa ggaagcagga tggcagccgg aacagcagtt ggagcctggg tgctggtcct
61    cagtctgtgg ggggcagtag taggtgctca aaacatcaca gcccggattg gcgagccact
121   ggtgctgaag tgtaaggggg cccccaagaa accaccccag cggctggaat ggaaactgaa
181   cacaggccgg acagaagctt ggaaggtcct gtctccccag ggaggaggcc cctgggacag
241   tgtggctcgt gtccttccca acggctccct cttccttccg gctgtcggga tccaggatga
301   ggggattttc cggtgccagg caatgaacag gaatggaaag gagaccaagt ccaactaccg
361   agtccgtgtc taccagattc ctgggaagcc agaaattgta gattctgcct ctgaactcac
421   ggctggtgtt cccaataagg tggggacatg tgtgtcagag ggaagctacc ctgcagggac
481   tcttagctgg cacttggatg ggaagcccct ggtgcctaat gagaagggag tatctgtgaa
541   ggaacagacc aggagacacc ctgagacagg gctcttcaca ctgcagtcgg agctaatggt
601   gacccccagcc cggggaggag atccccgtcc caccttctcc tgtagcttca gcccaggcct
661   tccccgacac cgggccttgc gcacagcccc catccagccc cgtgtctggg agcctgtgcc
721   tctggaggag gtccaattgg tggtggagcc agaaggtgga gcagtagctc ctggtggaac
781   cgtaaccctg acctgtgaag tccctgccca gcccctctcct caaatccact ggatgaagga
841   tggtgtgccc ttgcccccttc cccccagccc tgtgctgatc ctccctgaga tagggcctca
901   ggaccaggga acctacagct gtgtggccac ccattccagc cacgggcccc aggaaagccg
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1141  ggccccagaa aaccaggagg aagaggagga gcgtgcagaa ctgaatcagt cggaggaacc
1201  tgaggcaggc gagagtagta ctggagggcc ttgaggggcc cacagacaga tcccatccat
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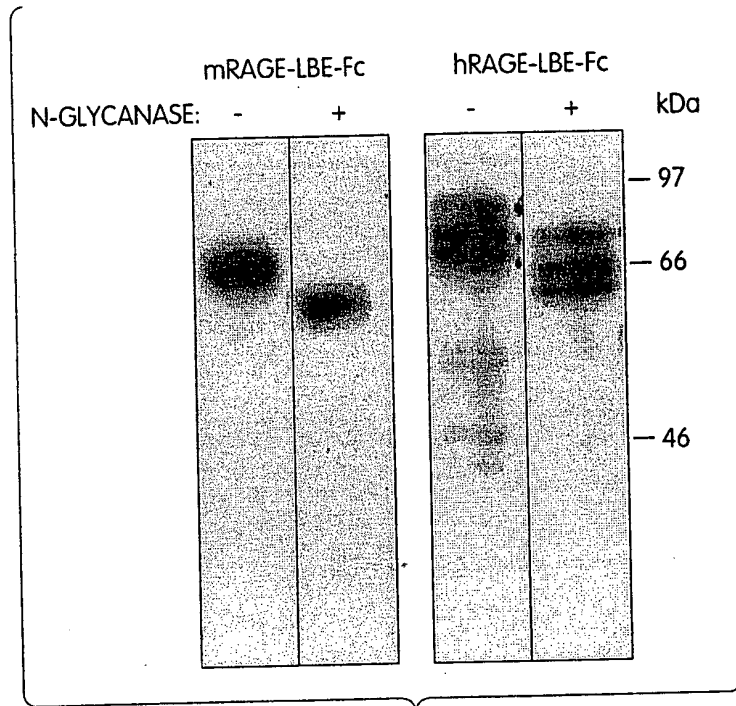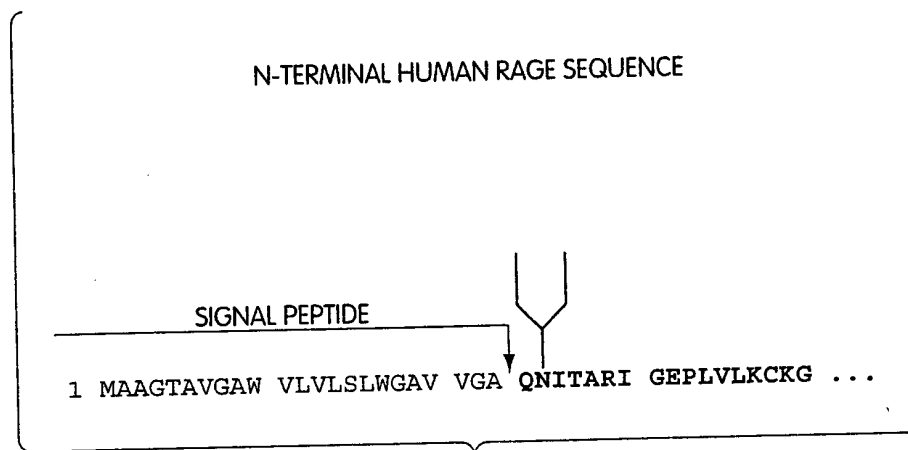
Fig. 8

Fig. 9

N-TERMINAL HUMAN RAGE SEQUENCE

SIGNAL PEPTIDE

1 MAAGTAVGAW VLVLSLWGAV VGA QNITARI GEPLVLKCKG ...

Fig. 10